Revision Date 9 October 2014

Revision 3

Supersedes date 15 January 2014

# SAFETY DATA SHEET
# Tableau Fridge Freezer De Icer

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

| | |
|---|---|
| Product name | Tableau Fridge Freezer De Icer |
| Product No. | SA1462 |

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

| | |
|---|---|
| Identified uses | Cleaning agent. |

### 1.3. Details of the supplier of the safety data sheet

| | |
|---|---|
| Supplier | RPM Marketing (Sussex)<br>PO Box 1<br>BEXHILL ON SEA<br>East Sussex<br>TN39 3ZQ<br>Tel: 01424 224620 |

### 1.4. Emergency telephone number

National Emergency Telephone Number 01424 575131 Ext 9 Office Hours (Mon- Fri 9am-5pm) only.

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

| | | |
|---|---|---|
| | Physical and Chemical Hazards | Flam. Aerosol 1 - H222 |
| | Human health | Not classified. |
| | Environment | Not classified. |
| Classification (1999/45/EEC) | F+;R12. | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.

Environment

The product is not expected to be hazardous to the environment.

Physical and Chemical Hazards

Pressurised container: Must not be exposed to temperatures above 50°C. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures.

### 2.2. Label elements

Label In Accordance With (EC) No. 1272/2008

| | | |
|---|---|---|
| Signal Word | Danger | |
| Hazard Statements | | |
| | H222 | Extremely flammable aerosol. |
| Precautionary Statements | | |
| | P102 | Keep out of reach of children. |

| | |
|---|---|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Pressurized container: Do not pierce or burn, even after use. |
| P261 | Avoid breathing vapour/spray. |
| P410+412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. |

Supplementary Precautionary Statements

| | |
|---|---|
| P314 | Get medical advice/attention if you feel unwell. |
| P501 | Dispose of contents/container in accordance with national regulations. |

### 2.3. Other hazards

H229 Pressurised container: May burst if heated.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

| ETHANOL | | 30-60% |
|---|---|---|
| CAS-No.: 64-17-5 | EC No.: 200-578-6 | |
| Classification (EC 1272/2008)<br>Flam. Liq. 2 - H225 | Classification (67/548/EEC)<br>F;R11 | |

| BUTANE/ISOBUTANE | | 10-30% |
|---|---|---|
| CAS-No.: 106-97-8 | EC No.: 203-448-7 | Registration Number: 01-2119474691-32 |
| Classification (EC 1272/2008)<br>Flam. Gas 1 - H220 | Classification (67/548/EEC)<br>F+;R12. | |

| PROPANE | | 10-30% |
|---|---|---|
| CAS-No.: 74-98-6 | EC No.: 200-827-9 | Registration Number: 01-2119486944-21 |
| Classification (EC 1272/2008)<br>Flam. Gas 1 - H220 | Classification (67/548/EEC)<br>F+;R12 | |

| METHANOL | | 1-5% |
|---|---|---|
| CAS-No.: 67-56-1 | EC No.: 200-659-6 | Registration Number: 01-2119433307-44 |
| Classification (EC 1272/2008)<br>Flam. Liq. 2 - H225<br>Acute Tox. 3 - H301<br>Acute Tox. 3 - H311<br>Acute Tox. 3 - H331<br>STOT SE 1 - H370 | Classification (67/548/EEC)<br>F;R11<br>T;R23/24/25,R39/23/24/25 | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

General information

Move the exposed person to fresh air at once.

Inhalation

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention if any discomfort continues.

Skin contact

Wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact

Immediately rinse with water. Continue to rinse for at least 15 minutes. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention promptly if symptoms occur after washing.

### 4.2. Most important symptoms and effects, both acute and delayed

General information

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation

In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.

Ingestion

Fumes from the stomach contents may be inhaled resulting in the same symptoms as inhalation.

Skin contact

Prolonged contact may cause redness, irritation and dry skin.

Eye contact

There may be irritation and redness. Eyes may water profusely.

### 4.3. Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Extinguishing media

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media

Water jet.

### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

Extremely flammable. Forms explosive mixtures with air. May explode in a fire. Vapours are heavier than air and may spread near ground to sources of ignition.

Specific hazards

Pressurised container: Must not be exposed to temperatures above 50°C.

### 5.3. Advice for firefighters

Special Fire Fighting Procedures

Use water spray to reduce vapours. Aerosol cans may explode in a fire. Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

### 6.2. Environmental precautions

Avoid discharge into drains.

### 6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Provide ventilation and confine spill. Do not allow runoff to sewer.

### 6.4. Reference to other sections

For personal protection, see section 8. Collect and dispose of spillage as indicated in section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. Avoid inhalation of vapours and spray mists. Do not spray on a naked flame or any incandescent material. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

### 7.2. Conditions for safe storage, including any incompatibilities

Extremely flammable. Store at moderate temperatures in dry, well ventilated area. Keep away from heat, sparks and open flame.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Storage Class

Extremely Flammable Aerosol

### 7.3. Specific end use(s)

Cleaning Agent

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

| Name | STD | TWA - 8 Hrs | | STEL - 15 Min | | Notes |
|---|---|---|---|---|---|---|
| BUTANE/ISOBUTANE | WEL | 600 ppm | | 750 ppm | | |
| ETHANOL | WEL | 1000 ppm | 1920 mg/m3 | | | |
| METHANOL | WEL | 200 ppm(Sk) | 266 mg/m3(Sk) | 250 ppm(Sk) | 333 mg/m3(Sk) | |
| PROPANE | WEL | 1000 ppm | 1800 mg/m3 | | | |

WEL = Workplace Exposure Limit.

### 8.2. Exposure controls

Protective equipment

Process conditions

Ensure suitable ventilation of area.

Engineering measures

Provide adequate ventilation.

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. In case of inadequate ventilation use suitable respirator.
Hand protection

For prolonged or repeated skin contact use suitable protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. (Sk) noted above means can be absorbed through skin.

Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes wet or contaminated. Wash promptly if skin becomes wet or contaminated. Use appropriate skin cream to prevent drying of skin.

Personal protection

Wear protective work clothing.

Skin protection

Wear suitable gloves if prolonged or repeated skin contact is likely

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Appearance | Aerosol container containing a mixture of active ingredients, solvents and propellants |
| Colour | Colourless. |
| Odour | Odour of alcohol. |
| Solubility | Soluble in water. |
| Flash point (°C) | <-40°C |
| Auto Ignition Temperature (°C) | 410-580 |
| Flammability Limit - Lower(%) | 1.8% |
| Flammability Limit - Upper(%) | 9.5% |
| Comments | A flash point method is not available for aerosols but the major hazardous component, the Propellant has flash point of <-40 C with flammability limits of 9.5% vol. upper and 1.8% vol. lower. Auto ignition temperature is 410/580 C. |

### 9.2. Other information

Not available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

Highly volatile. Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions if stored under normal conditions.

Hazardous Polymerisation

Will not polymerise.

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

### 10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances.

### 10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

General information

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation

High exposures may cause an abnormal heart rhythm and prove suddenly fatal. Very high atmospheric concentrations may cause anaesthetic effects and asphyxiation.

Ingestion

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin contact

Skin irritation is not anticipated when used normally. Repeated exposure may cause skin dryness or cracking.

Eye contact

Spray and vapour in the eyes may cause irritation and smarting.

Health Warnings

In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Arrhythmia, (deviation from normal heart beat).

Route of entry

Inhalation.

Target Organs

Central nervous system Respiratory system, lungs

Medical Symptoms

Narcotic effect. Vapours may cause drowsiness and dizziness.

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be toxic to aquatic organisms. Do not allow to enter drains, sewers or watercourses.

### 12.1. Toxicity

Not regarded as dangerous for the environment

### 12.2. Persistence and degradability

Biodegradable

### 12.3. Bioaccumulative potential

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

### 12.4. Mobility in soil

Mobility:

The product contains substances, which are water soluble and may spread in water systems.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

## SECTION 13: DISPOSAL CONSIDERATIONS

General information

Dispose of waste and residues in accordance with local authority requirements.

### 13.1. Waste treatment methods

Make sure containers are empty before discarding (explosion risk). Do not puncture or incinerate even when empty. Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: TRANSPORT INFORMATION

| | |
|---|---|
| General | This product is packed in accordance with the Limited quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow the transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing they are labelled in accordance with the requirements of those regulations to show that they are transported as Limited Quantities. Aerosols not so packed must show the following. |

### 14.1. UN number

| | |
|---|---|
| UN No. (ADR/RID/ADN) | 1950 |
| UN No. (IMDG) | 1950 |
| UN No. (ICAO) | 1950 |

### 14.2. UN proper shipping name

| | |
|---|---|
| Proper Shipping Name | AEROSOLS |

### 14.3. Transport hazard class(es)

| | |
|---|---|
| ADR/RID/ADN Class | 2, 5F |
| ADR/RID/ADN Class | Class 2: Gases |
| ADR Label No. | 2.1 |
| IMDG Class | 2 |
| ICAO Class/Division | 2 |
| ICAO Subsidiary risk | 2.1 |

Transport Labels

### 14.4. Packing group

| | |
|---|---|
| ADR/RID/ADN Packing group | # |
| IMDG Packing group | # |
| ICAO Packing group | # |

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

### 14.6. Special precautions for user

| | |
|---|---|
| EMS | F-D, S-U |
| Tunnel Restriction Code | (D) |

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Uk Regulatory References

Health and Safety at Work Act 1974. Chemicals (Hazard Information & Packaging) Regulations. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments

Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

EU Legislation

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). The Aerosol Dispensers Regulations 2009 (SI 2824) The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 ("CDG 2009"), SI 2009 No 1348 The Aerosol Dispensers (EEC Requirements)(Amendment) Regulations 1996 (S.I 1996 No. 2421). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

| | |
|---|---|
| Issued By | Technical Service Manager |
| Revision Date | 9 October 2014 |
| Revision | 3 |
| Supersedes date | 15 January 2014 |
| SDS No. | 10959 |
| Date | 9 October 2014 |
| Risk Phrases In Full | |
| R12 | Extremely flammable. |
| R11 | Highly flammable |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| R39/23/24/25 | Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. |
| Hazard Statements In Full | |
| H370 | Causes damage to organs <<Organs>>. |
| H222 | Extremely flammable aerosol. |
| H220 | Extremely flammable gas. |
| H225 | Highly flammable liquid and vapour. |
| H331 | Toxic if inhaled. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in a process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.